

- 2 -

Hanna et al.
Appl. No. 09/030,832

It is not believed that extensions of time or fees for net addition of claims are required. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

*Amendments**In the Claims:*

Please cancel non-elected claims 10, 27-94, and 148-157 without prejudice or disclaimer.

Please substitute the following claim 95 for the pending claim 95:

95. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids 1 to 260 of SEQ ID NO:42;

wherein % identity is determined with parameters that calculate % identity over the full length of amino acids 1 to 260 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids 1 to 260 of SEQ ID NO:42; and

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

- 3 -

Hanna et al.
Appl. No. 09/030,832

Please substitute the following claim 98 for the pending claim 98:

4 ~~98.~~

(fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids 1 to 488 of SEQ ID NO:42;

G2
wherein % identity is determined with parameters that calculate % identity over the full length of amino acids 1 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids 1 to 488 of SEQ ID NO:42;

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

Please substitute the following claim 101 for the pending claim 101:

7 ~~101.~~

(fourth amended) An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids -17 to 488 of SEQ ID NO:42;

G3
wherein % identity is determined with parameters that calculate % identity over the full length of amino acids -17 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids -17 to 488 of SEQ ID NO:42;

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

- 4 -

Hanna et al.
Appl. No. 09/030,832

Please substitute the following claim 104 for the pending claim 104:

10 ~~104~~. (fourth amended) An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids -18 to 488 of SEQ ID NO:42;

G4 wherein % identity is determined with parameters that calculate % identity over the full length of amino acids -18 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids -18 to 488 of SEQ ID NO:42;

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

Please substitute the following claim 115 for the pending claim 115:

21 ~~115~~. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642;

G5 wherein % identity is determined with parameters that calculate % identity over the full length of the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642 and that allow gaps of up to 5% of the total number of residues of the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642;

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

- 5 -

Hanna et al.
Appl. No. 09/030,832

G5
cont

wherein said complex produces GABA-activated chloride currents.

Please substitute the following claim 117 for the pending claim 117:

23 117. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642;

wherein % identity is determined with parameters that calculate % identity over the full length of the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642 and that allow gaps of up to 5% of the total number of residues of the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642;

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

- 6 -

Hanna et al.
Appl. No. 09/030,832

Please substitute the following claim 127 for the pending claim 127:

*33*¹²⁷. (twice amended) An isolated polynucleotide comprising a first polynucleotide which hybridizes to a second polynucleotide, wherein the second polynucleotide consists of the complement of the nucleotide sequence of the coding region of SEQ ID NO:41, under conditions consisting of:

- (a) incubating overnight at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA; and
- (b) washing at 65°C in a solution consisting of 0.1x SSC;

wherein said first polynucleotide encodes a polypeptide that forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and
wherein said complex produces GABA-activated chloride currents.